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Form PTO-1449 (Rev. 8-83)		irtment of Commerce and Trademark Office	Atty Docket 0756-2	431	Serial No. 10	0/066,542
INFORMA	TION DISCHOSURE STA	MEMENT	Applicants: Osamu	NAKAMURA et	al.	
	APR 0 5 2002	FRICE	Filing Date: Februar	ry 05, 2002	Group Art 1	Y 15 Unit: <del>-N/A</del>
	2	U.S. PATENT	DOCUMENTS			
xaminer nitial	Document Notice TRADER	Date	Name	Class	Subclass	Filing Date (if appropriate
BWB	5,529,937	06/25/1996	Zhang et al.			1
,	5,608,232	03/04/1997	Yamazaki et al.			<del>                                     </del>
	5,639,698	06/17/1997	Yamazaki et al.			+/-
	5,700,333	12/23/1997	Yamazaki et al.		·	1/
	5,773,327	06/30/1998	Yamazaki et al.			<del>//</del>
<del>                                      </del>	5,789,284	08/04/1998	Yamazaki et al.			/
	5,814,540	09/29/1998	Takemura et al.		/	<del>' </del>
1 1	5,869,363	02/09/1999	Yamazaki et al.		<del>                                     </del>	<del>                                     </del>
	5,888,858	03/30/1999	Yamazaki et al.		/	
	5,893,730	04/13/1999	Yamazaki et al.			1
	5,897,347	04/27/1999	Yamazaki et al.			
+	5,915,174	06/22/1999	Yamazaki et al.		<del>                                     </del>	1
1	5,949,115	09/07/1999	Yamazaki et al.		<del>                                     </del>	
	5,956,579	09/21/1999	Yamazaki et al.		<del>-/</del>	
	5,961,743	10/05/1999	Yamazaki et al.		-	
	5,977,559	11/02/1999	Zhang et al.		-/	
	5,985,740	11/16/1999	Yamazaki et al.		<del>                                     </del>	
,	6,027,987	02/22/2000	Yamazaki et al.		<del>                                     </del>	
	6,048,758	04/11/2000	Yamazaki et al.		<del>                                     </del>	
	6,063,654	05/16/2000	Ohtani		/	
	6,066,518	05/23/2000	Yamazaki			<del>                                     </del>
	6,071,764	06/06/2000	Zhang et al.			
1 1	6,071,766	06/06/2000	Yamazaki et al.	<del></del>		
1 1	6,072,193	06/06/2000	Ohnuma et al.	1-/		
1	6,077,731	06/20/2000	Yamazaki et al.	<del>                                     </del>		
1	6,077,758	06/20/2000	Zhang et al.	<del>-   / -</del>		<b>†</b>
	6,084,247	07/04/2000	Yamazaki et al.	<del>-   / -</del>	-	
7	6,087,679	07/11/2000	Yamazaki et al.	<del></del>		
7	6,093,934	07/25/2000	Yamazaki et al.		<u> </u>	
	6,100,562	08/08/2000	Yamazaki et al.			
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	m		Date Considered .	6/2/02		

	66,542
Document Number	
Date   Name   Class   Subclass   (fit   Name   Class   Class   Class   Class   Class   Class   (fit   Name   Class   Clas	: N/A 5
Document Number   Date   Name   Class   Subclass   (fit in this in t	
6,111,557	Filing Date
6,121,660	
8,133,075	
6,133,119	<del>-/</del>
6,153,445 11/28/2000 Yamazaki et al. 6,156,590 12/05/2000 Ohnuma et al. 6,156,628 12/12/2000 Ohnuma et al. 6,160,268 12/12/2000 Yamazaki 6,162,704 12/19/2000 Yamazaki et al. 6,165,824 12/26/2000 Takano et al. 6,168,980 01/02/2001 Yamazaki et al. 6,168,980 02/06/2001 Hayakawa et al. 6,184,559 02/27/2001 Hiroki et al. 6,194,255 02/27/2001 Takano et al. 6,197,624 03/06/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,101 03/20/2001 Yamazaki 6,207,969 03/27/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Nakajima et al. 6,242,290 06/05/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al.	+
6,156,590 12/05/2000 Yamazaki et al. 6,156,628 12/05/2000 Ohnuma et al. 6,160,268 12/12/2000 Yamazaki 6,162,704 12/19/2000 Yamazaki et al. 6,165,824 12/26/2000 Takano et al. 6,168,980 01/02/2001 Yamazaki et al. 6,184,559 02/06/2001 Hayakawa et al. 6,194,255 02/27/2001 Hiroki et al. 6,197,624 03/06/2001 Yamazaki et al. 6,201,585 03/13/2001 Takano et al. 6,204,154 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki et al. 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Yamazaki et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al.	+-
6,156,628	<del>/</del>
6,160,268	
6,162,704 12/19/2000 Yamazaki et al. 6,165,824 12/26/2000 Takano et al. 6,168,980 01/02/2001 Yamazaki et al. 6,184,559 02/06/2001 Hayakawa et al. 6,194,255 02/27/2001 Hiroki et al. 6,197,624 03/08/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Zhang et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Vamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,165,824 12/26/2000 Takano et al. 6,168,980 01/02/2001 Yamazaki et al. 6,184,559 02/06/2001 Hayakawa et al. 6,194,255 02/27/2001 Hiroki et al. 6,197,624 03/06/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Vamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,287,900 09/11/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,168,980 01/02/2001 Yamazaki et al. 6,184,559 02/06/2001 Hayakawa et al. 6,194,255 02/27/2001 Hiroki et al. 6,197,624 03/08/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki et al. 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,184,559	
6,194,255 02/27/2001 Hiroki et al. 6,197,624 03/06/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al.	
6,197,624 03/06/2001 Yamazaki 6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,201,585 03/13/2001 Takano et al. 6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al.	
6,204,101 03/20/2001 Yamazaki et al. 6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,204,154 03/20/2001 Zhang et al. 6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,207,969 03/27/2001 Yamazaki 6,218,219 04/17/2001 Yamazaki et al. 6,225,152 05/01/2001 Yamazaki et al. 6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki et al.	
6,218,219	
6,225,152	
6,232,205 05/15/2001 Ohtani 6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,232,621 05/15/2001 Yamazaki et al. 6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,242,290 06/05/2001 Nakajima et al. 6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,251,712 06/26/2001 Tanaka et al. 6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,287,900 09/11/2001 Yamazaki et al. 6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,291,275 09/18/2001 Yamazaki et al. 6,294,441 09/25/2001 Yamazaki	
6,294,441 09/25/2001 Yamazaki	
6,303,415 10/16/2001 Yamazaki	
Examiner Date Considered 8/2/02	
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	APR 0 5 200	Q W	Filing Date: February 0:	5, 2002	Group Art U	Jnit: 375
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Examiner Initial	Document Number		Name	Class	Subclass	Filing Date (if appropriate)
AND	6,303,963	10/16/2001	Ohtani et al.			
101	6,307,214	10/23/2001	Ohtani et al.			
	6,316,789	11/13/2001	Yamazaki et al.			
	6,316,810	11/13/2001	Yamazaki et al.			L,
	FC	REIGN PATER	IT DOCUMENTS			
Examiner Initial	Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
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U.S. PATENT DOCUMENTS

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/066,542					
Filing Date	February 5, 2002					
First Named Inventor	Osamu NAKAMURA et al.					
Art Unit	- <del>2814</del> - 2815					
Examiner Name	Tackson					
Attorney Docket Number	740756-2431					

Examiner Initials	Cite No.		U.S. Patent Document		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant
4. 0		Nun	nber - Kind Code <sup>2</sup> ((f known)	1	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
MAK	<b></b>	US	S-3,535,775	1	0/27/1970	Garfinkel et al.	
וויעי		US	S-4,371,403	0	2/01/1983	Ikubo et al.	
		US	S-4,477,308	1	0/16/1984	Gibson et al.	7
		US	S-4,534,820	0	8/13/1985	Mori et al.	76 /
		US	S-5,244,819	0	9/14/2002	Yue	32
		US	S-5,275,896	0	1/04/1994	Garofalo et al.	8 8 R
		US	S-5,403,772	0	4/04/1995	Zhang et al.	
		US	S-5,426,064	0	6/20/1995	Zhang et al.	\$ & m
		ÜS	S-5,481,121	0	1/02/1996	Zhang et al.	MAIL R
		US	S-5,488,000	0	1/30/1996	Zhang et al.	
		US	S-5,492,843	0	2/20/1996	Adachi et al.	R D D
		US	S-5,501,989	0	3/26/1996	Takayama et al.	3/
		US	S-5,508,533	0	4/16/1996	Takemura	
		US	5-5,534,716	0	7/09/1996	Takemura	
		US	3-5,543,352	0	8/06/1996	Ohtani et al.	/
		US	S-5,563,426	1	0/08/1996	Zhang et al.	
		US	5-5,569,610	1	0/29/1996	Zhang et al.	
		US	5-5,569,936	1	0/29/1996	Zhang et al.	
		US	S-5,580,792	1:	2/03/1996	Zhang et al.	
		US	S-5,585,291	1:	2/17/1996	Ohtani et al.	
				F	OREIGN PATENT D	OCUMENTS	
	iae lo.		Foreign Patern Document Kind Code		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	1	EP	651431		05/03/1995	Ohtani et al.	
17		JP	07-183540		07/21/1995	Ohtani et al.	AB

Examine Initials	Cite No.1		Foreign Patern Document Kind Code		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Reievant Passages or Reievant Figures Appear	T*
R.		Country C	Code <sup>3</sup> Number <sup>4</sup> (If known)	,				
		EP	651431		05/03/1995	Ohtani et al.		
		JР	07-183540		07/21/1995	Ohtani et al.		AB
		JP	08-078329		03/22/1996	Ohtani		AB
		JP	3032801		02/18/2000	Takano et al.		AB
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PTO/SB/08A (10-01)

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Complete if Known					
Application Number	10/066,542				
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Art Unit	2814-2815				
Examiner Name	JACKSON				
Attorney Docket Number	740756-2431				

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document  Number - Kind Code <sup>7</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Card Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
48W3		US-5,589,694	12/31/1996	Takayama et al.	
77		US-5,595,923	01/21/1997	Zhang et al.	
		US-5,595,944	01/21/1997	Zhang et al.	
		US-5,604,360	02/18/1997	Zhang et al.	
		US-5,605,846	02/25/1997	Ohtani et al.	
		US-5,606,179	02/25/1997	Yamazaki et al.	
		US-5,612,250	03/18/1997	Ohtani et al.	70
		US-5,614,426	03/25/1997	Funada et al.	Ni /
		US-5,614,733	03/25/1997	Zhang et al.	800
		US-5,616,506	04/01/1997	- Takemura	
		US-5,620,910	04/15/1997	Teramoto	3 % 0
		US-5,621,224	04/15/1997	Yamazaki et al.	
		US-5,624,851	04/29/1997	Takayama et al.	R S F
		US-5,637,515	06/10/1997	Takemura	
		US-5,646,424	07/08/1997	Zhang et al.	ROOM
		US-5,654,203	08/05/1997	Ohtani et al.	
		US-5,656,825	08/12/1997	Kusumoto et al.	
		US-5,663,077	09/02/1997	Adachi et al.	
		US-5,677,549	10/14/1997	Takayama et al.	
:		US-5,696,386	12/09/1997	Yamazaki	
V		US-5,696,388	12/09/1997	Funada et al.	

PTO/SB/08A (10-01)
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Complete if Known bstitute for form 1449A/PTO 10/066,542 **Application Number** NFORMATION DISCLOSURE February 2, 2002 Filing Date STATEMENT BY APPLICANT Osamu NAKAMURA et al. First Named Inventor (use as many sheets as necessary) 2814 2810 Art Unit JACKSON **Examiner Name** of Attorney Docket Number 740756-2431

	<u> L</u>					740	730-2431	
				U.S. PATENT DOC	UMENTS			
Examiner Initials	Cite No.'	U.S. Patent Document  Number - Kind Code <sup>2</sup> (if Inown)	$\overline{}$	Publication Date MM-DD-YYYY	Name of Paten Applicant of Cited		Pages, Columns, Lines, When Passages or Relevant Figure	
WW		US-5,705,829	П	01/06/1998	Miyanaga et al.			
41.00		US-5,712,191	П	01/27/1998	Nakajima et al.		<u> </u>	
• /		US-5,744,824	$\Box$	04/28/1998	Kousai et al.		N /-	70
P		US-5,843,225	П	12/01/1998	Takayama et al.		8/8	
		US-5,923,962		07/13/1999	Ohtani et al.		9 %	80
		US-5,932,893		08/03/1999	Miyanaga et al.		\$ 0	
		US-6,180,439	$\Box$	01/30/2001	Yamazaki et al.		1 2	
		US-6,285,042		09/04/2001	Ohtani et al.		/20 8	Û
		US-6,376,336		04/23/2002	Buynoski et al.		/ 8	
		US-6,396,147	$\Box$	05/28/2002	Adachi et al.		3	
		US-2001/0034088		10/25/2001	Nakamura et al.			
		US-		_			- /	
		OTHER	PRIC	OR ART - NON PATENT L	ITERATURE DOCUM	IENTS	,	
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		Lee et al. <u>IEEE Tran</u> Ion-Implantation on in p <sup>+</sup> pMOSFET" p	Pol	lysilicon or Amorpho			gust 1998 "Argon etration Suppression	
		Miyake et al. IEEE "Characteristics of Fabricated Using C	Buri	ied-Channel pMOS I	Devices with Shal			
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		U.S. Patent Applicat Specification, Claim			31, Filed: 02/12/2	002 - Fil	ing Receipt,	
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		U.S. Patent Applicat Specification, Claim			60 Filed: 02/14/20	002, Filir	ng Receipt,	
\		U.S. Patent Applicat Specification, Claim			64 Filed: 01/18/20	002, Filin	ng Receipt,	
7		U.S. Patent Applicat Specification, Claim			11 Filed: 03/15/20	002, Filin	ng Receipt,	
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<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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14Nh)			D.J. Llewellyn et al. IEEE 1997; "Implantation and annealing of Cu in InP for electrical isolation: microstructural characterization" pp.313-316								
4ND		Kevin Jones et al. <u>IEEE 2006</u> Silicon"; pp.111-114	<u>0;"Boron Diffusion</u>	upon Annealing of Last	er Thermal Processed						
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<i>/// /</i> /	/	6,022,458		Ichikawa	02/08/2000	/
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4 1/1		JP	5-109737 A		04/30/1993		W/Abstract
M rikt		JP	07-130652 A	T. Fukanaga et al	05/19/1995		W/Abstract
<del>                                     </del>	/	JP	2000-260777 A	J. Linn et al	09/22/2000		W/Abstract
HIV)		JP	2001-210828 A	M. Miyasaka	08/03/2001		W/Abstract
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Complete if Known 10/066,542 Application Number February 5, 2002 Filing Date Osamu NAKAMURA et al. First Named Inventor 2815 An Unit Bradley Baumoister Jackson Examiner Name

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			U.S. PATENT DOC	UMENTS	
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		Number - Kind Code (If triown)	MM-DD-YYYY	Applican of Cited Document	Finances or Activitate Figures Appear
111		US-4,727,044	02/23/1988	Yamazaki	
//X		US-5,248,630	09/28/1993	Serikawa et al.	
7		US-5,550,070	08/27/1996	Funai et al.	
		US-5,551,984 ·	09/03/1996	Tanahashi	
		US-5,696,003	12/09/1997	Makita et al.	``
		US-5,851,860	12/22/1998	Makita et al.	
		US-5,960,252	09/28/1999	Matsuki et al.	
		US-5,970,327	10/19/1999	Makita et al.	
		US-5,997,286	12/07/1999	Hemsath et al.	
		US-6,013,544	01/11/2000	Makita et al.	
		US-6,015,593	01/18/2000	Yonkoski et al.	
		US-6,083,324	07/04/2000	Henley et al.	
		US-6,162,667	12/19/2000	Funai et al.	
		US-6,168,981 B1	01/02/2001	Battaglia et al.	
		US-6,287,988 B1	09/11/2001	Nagamine et al.	
		US-6,306,694 B1	10/23/2001	Yamazaki et al.	
		US-6,331,457 B1	12/18/2001	Yamazaki et al.	
		US-6,337,259 B1	01/08/2002	Ueda et al.	
		US-6,346,730 B1	02/12/2002	Kitakado et al.	
		US-6,362,507 B1	03/26/2002	Ogawa et al.	
		US-6,391,690 B2	05/21/2002	Miyasaka	
		US-6,399,988 B1	06/04/2002	Yamazaki	
		US-6,420,758 B1	07/16/2002	Nakajima	
		US-6,426,276 B1	07/30/2002	Ohnuma et al.	
		US-6,429,097 B1	08/06/2002	Voustas et al.	
$\neg \neg$		US-6,436,745 B1	08/20/2002	Gotou et al.	
		US-6,461,943 B1	10/08/2002	Yamazaki et al.	
		US-6,489,189 B2	12/03/2002	Yamazaki et al.	
		US-6,512,504 B1	01/28/2003	Yamauchi et al.	
		US-6,531,713 B1	03/11/2003	Yamazaki	
		US-6,534,826 B2	03/18/2003	Yamazaki	
		US-6,541,294 B1	04/01/2003	Yamazaki et al.	
		US-6,576,926 B1	06/10/2003	Yamazaki et al.	
		US-6,579,736 B2	06/17/2003	Yamazaki	
		US-6,680,577 B1	01/20/2004	Inukai et al.	
		US-6,709,902 B2	03/23/2004	Kitakado et al.	
		US-6,737,304 B2	05/18/2004	Yamazaki et al.	
		US-6,743,649 B2	06/01/2004	Yamazaki et al.	
		US-2002/0028543	03/07/2002	Yamazaki et al.	
		US-2002/0086469	07/04/2002	Kim et al.	
h.		US-2002/0098628	07/25/2002	Hamada et al.	
7/1	l	US-2002/0102764	08/01/2002	Yamazaki et al.	

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For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 

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11	1	US-2002/0115271 A1	08/22/2002	Yamazaki et al.		. 1	
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<del>/  </del>	1	US-2002/0134981 A1	09/26/2002	Nakamura et al.			
_	1-	US-2002/0142554 A1	10/03/2002	Nakajima			
	1	US-2002/0151120 A1	10/17/2002	Yamazaki et al.			
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	1	US-2002/0197785 A1	12/26/2002	Yamazaki et al.			
	1	US-2003/0060057 A1	03/27/2003	Raaijmakers et al.			
1	1	US-2003/0062499 A1	04/03/2003	Yamazaki		<del> </del>	
		US-2003/0132900 A1	07/17/2003	Yamauchi et al.			
144		US-2003/0197179 A1	10/23/2003	Yamazaki et al.			
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/066,542							
Filing Date	February 5, 2002							
First Named Inventor	Osamu NAKAMURA et al.							
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		Number	(Cod Cod)	Documens	10±00-11/1	
Mha		US-5,962	2,871	Zhang et al.	10-05-1999	
Wh		US-5,318	1,661	Kumomi	06-07-1994	
11/1		US-5,399	,883	Baliga	03-21-1995	
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